



Reply To: 3460/3410

Date: October 28, 1993

Mr. Allen Carter
Regional Forester, R-5
USDI Fish and Wildlife Service
P.O. Box 349
Sufolk, VA 23434

Dear Mr. Carter:

On October 7, 1993, USDA Forest Service personnel conducted a gypsy moth egg mass survey at Eastern Neck National Wildlife Refuge. The purpose of this survey was to evaluate the effectiveness of the aerial suppression project conducted this past May and to determine if treatment is again needed in 1994.

The results of the survey are presented in Table 1. The survey plot locations along with the 1993 treatment areas are shown in Figure 1. In brief, site-wide egg mass densities ranged from 0-1,480 and averaged 245 egg masses per acre. Egg mass densities inside the treatment blocks have been reduced 87 percent from the pre-treatment level of 2,273 egg masses per acre (Range = 40-7,080) to the current level of 295 egg masses per acre (Range = 0-1,480). This egg mass reduction can be attributed both to the suppression project and a natural decline of gypsy moth populations at Eastern Neck National Wildlife Refuge as egg mass densities outside the treatment blocks decreased 75 percent from the pre-treatment level.

Due to this natural decline and the relatively low gypsy moth populations that currently exist, no noticeable defoliation is expected in 1994. Treatment is not necessary.

If you have any questions or require additional information, please call me at (304) 285-1555.

Sincerely,

Rodney L. Whiteman

RODNEY L. WHITEMAN
Forestry Technician
Forest Health Protection

Enclosures

cc: AO
Glenn Carowan, Acting Refuge Manager
Robert Tichenor, MDA
Steve Tilley, MDA

RLW/mae



Table 1.--Gypsy moth egg mass survey results at Eastern Neck
National Wildlife Refuge, October 7, 1993.

| Plot Number | Number Egg Masses/Acre |
|-------------|------------------------|
| 1 | 1480 |
| 2 | 480 |
| 3 | 160 |
| 4 | 80 |
| 5 | 160 |
| 6 | 160 |
| 7 | 0 |
| 8 | 440 |
| 9 | 0 |
| 10 | 0 |
| 11 | 280 |
| 12 | 120 |
| 13 | 440 |
| 14 | 80 |
| 15 | 40 |
| 16 | 0 |

Range = 0-1480 EM/Acre

Average = 245 EM/Acre

Figure 1. -- 1993 Gypsy moth treatment areas and egg mass survey plot locations at Eastern Neck National Wildlife Refuge.

